

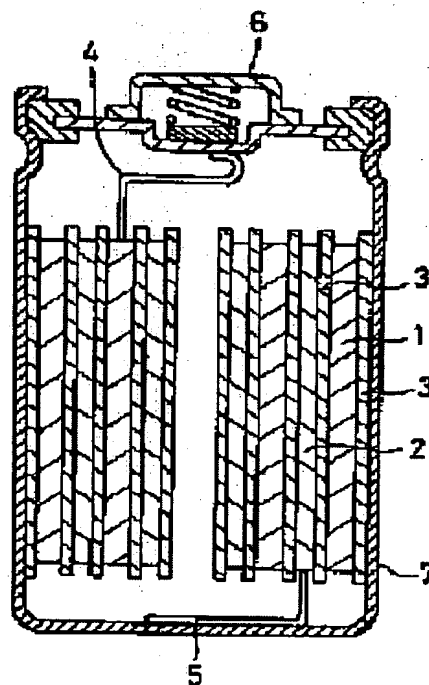
**LITHIUM SECONDARY BATTERY**

**Patent number:** JP6275271  
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**Inventor:** KIDA YOSHINORI; FUJIMOTO MASAHISA; NISHIO KOJI; SAITO TOSHIHIKO  
**Applicant:** SANYO ELECTRIC CO  
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- **International:** H01M4/58; H01M4/02; H01M10/40  
- **European:**  
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**Abstract of JP6275271**

**PURPOSE:** To increase the storage/emission quantities of lithium ions on a negative electrode and increase the charge/discharge capacities by using expansion graphite having wide layer-to-layer spacing for a negative electrode material. **CONSTITUTION:** The expansion graphite having the crystal piece size ( $L_c$ ) of 170-230 Angstrom in the (c)-axis direction is dispersed in an NPM solution of vinylidene polyfluoride of 5wt.% serving as a binder to form slurry, it is applied on both faces of a copper foil serving as a negative electrode current collector by the doctor blade method, then it is dried in vacuum to form a negative electrode 2. The negative electrode 2, a prescribed positive electrode 1, and an electrolyte are combined to form a lithium secondary battery, the storage/emission quantities of lithium ions on the negative electrode 2 are increased, and large charge/discharge capacities can be obtained.



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